CRC5301

PIR Occupancy Sensor

Overview

Powered by NexLight's 2-Wire Data Bus, the CRC5301 is a ceiling mount occupancy sensor that utilizes Passive Infrared (PIR) technology to detect occupancy and automatically switch lighting ON and OFF as needed. Detection zones may be expanded with the CRC5311 auxiliary sensor. After mounting and setting initial address, all features and settings can be accessed via the system user interface.

Features

- Provides PIR technology Occupancy or Vacancy sensing
- Detection area can be expanded by adding up to (5) CRC5311 auxiliary sensors
- Controls optional auxiliary load with additional OFF Delay feature
- Adjustable photocell can disable sensor when a user-defined level of daylight is present
- Once initial address is set, all other settings can be adjusted via IPC software
- Sensor can be enabled/disabled and motion status can be monitored via IPC system user interface

Electrical (Control Wiring)

Data Input:	±24 VAC, Signal
Current Draw:	20 mA (CRC5301) 15 mA (CRC5311)

Physical Specification

Dimensions:	4.13" H x 4.13" W x 2.95" D (105 mm x 105 mm x 75 mm)
Mounting Screw Pattern:	0.177" x 0.591" @ 3.07" ; 0.177" x 0.256" @ 3.27" (4.5 mm x 15.0 mm @ 78 mm ; 4.5 mm x 6.5 mm @ 83 mm)
Temperature Rating:	41 °F to 95 °F (5 °C to 35 °C)
Weight:	3.75 oz (106 g)
Lens Tilt Angle:	12° ±1°

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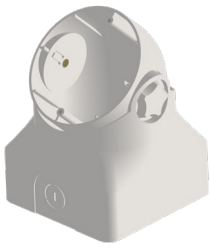
Accessories

CRC5311
PIR Occupancy Sensor Auxiliary Unit

CRC9500
Adjustable Narrow Beam Lens (ANBL)

CRC9370
Wall Mount Bracket



Terminal Identification

1. To Auxiliary CRC5311
2. 2-Wire Data Bus

1. From Main CRC5301

NOTE: Must be from S1/S2 terminals on Main CRC5301; do not connect to 2-Wire Data Bus.

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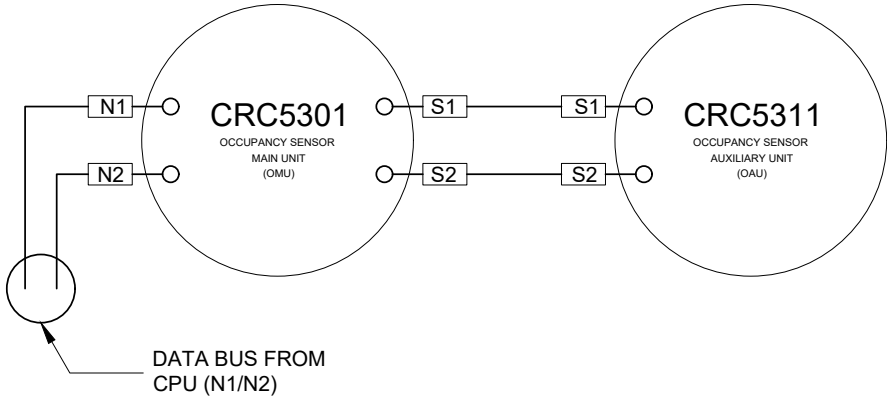
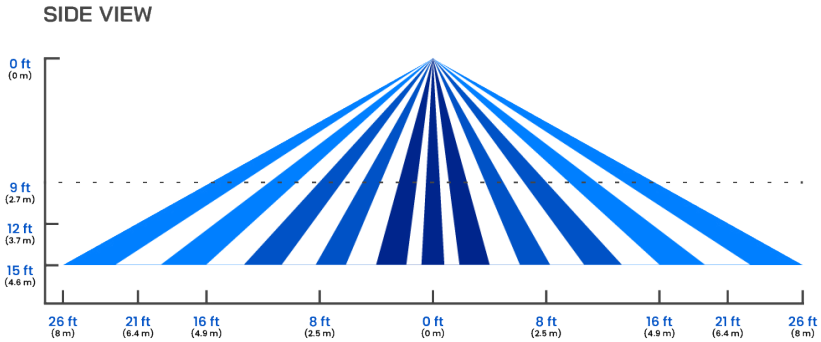
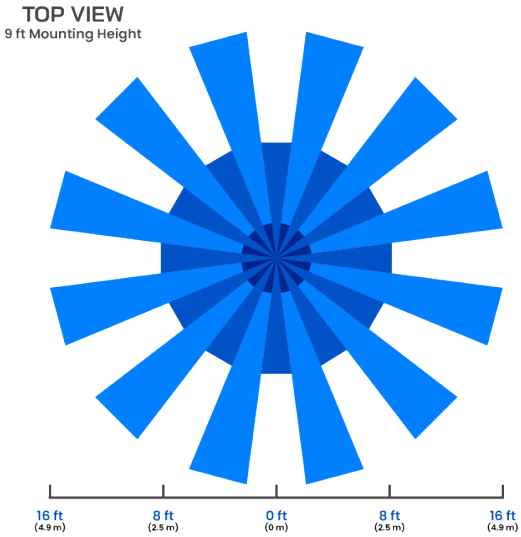
Wiring Diagrams

2-Wire Data Bus, 16 AWG, non-polarized, Belden 6200UE or equivalent



Detecting Range





At a standard ceiling height of 10 ft, each PIR sensor provides approximately 1,000 sq. ft. of detection coverage.

When mounted at 9 ft, sensors should be spaced no more than 30 ft apart. Detection coverage can be expanded by wiring a maximum of (5) CRC5311 Auxiliary Units to each CRC5301 Main Unit.

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Programming

Addressing of the CRC5301 Occupancy Sensor is conducted using the CRC6400 Address Setting Unit, a handheld IR programming tool that is commonly sold with each NexLight Lighting Control System. The CRC5301 Occupancy Sensor may only accept an Individual Address type. Individual Addresses consist of a prefix (values ranging from 0 to 63) and a suffix (values ranging from 1 to 4).

Channel 1: Sensor Address	Enable/Disable sensor with this address
Channel 2: *Factory Use Only	For internal NexLight use only
Channel 3: *Factory Use Only	For internal NexLight use only
Channel 4: Occupancy Status Monitoring	Displays current motion sensing status

CRC6400 Address Setting Unit programming a CRC5301 Occupancy Sensor

Screen 1 – Channels 1 through 4

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